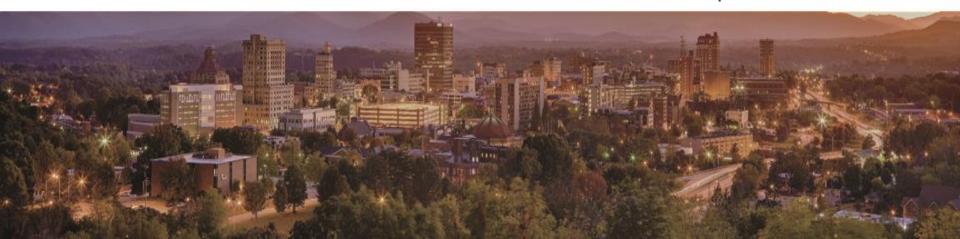




March 4, 2016

NCDOT - Division of Aviation

Bobby Walston, NCDOT, Division of Aviation Director John Lennon, NCDOT Board of Transportation Member



North Carolina Aviation

First in Flight



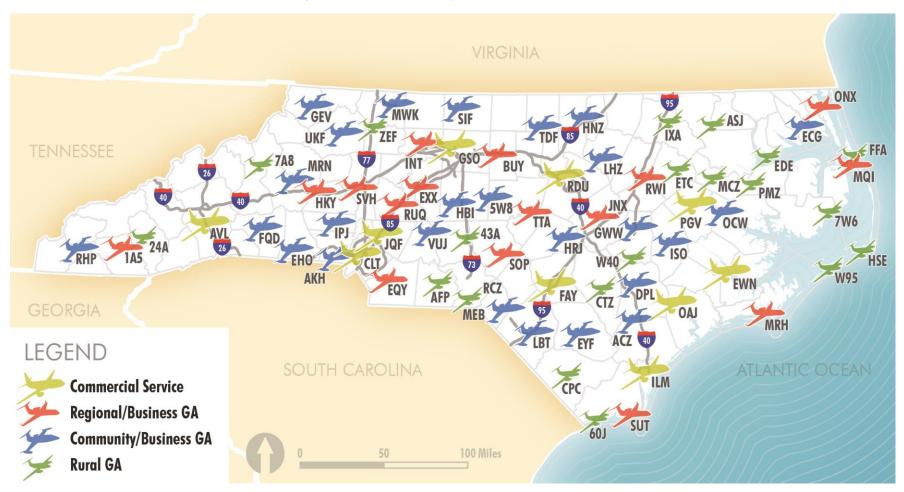






North Carolina's Aviation System

72 Publicly Owned Airports in North Carolina



Aviation in North Carolina

Annually:

- 28.4 million total passenger enplanements
- 3.2 million total aircraft operations
- Over 1.3 billion pounds of air cargo

Pilots, Aircraft and Mechanics

- •17,760 Pilots
- 6,987 Aircraft (625 Business Aircraft)
- •18,702 Mechanics



Annual Economic Contribution of NC's System of Publically Owned Airports

Commercial and General Aviation
Airports provide more than

\$31.1 billion in economic impact
each year.







Annual Economic Contribution of NC's System of Publically Owned Airports

- Commercial and General Aviation Airports support over 123,000 jobs throughout North Carolina.
- Commercial and General Aviation Airports support jobs which result in more than **\$4.1 billion** in personal income.







Source: NC State University, Institute for Transportation Research and Education, 2016

Annual Tax Revenues collected because of NC's System of Publically Owned Airports

State and local governments received more than \$910 million in sales, property, corporate, and personal taxes due to airport activity.

- \$550 million in state tax revenue related to business activity.
- \$360 million in local tax related to airport business activity.







Source: NC State University, Institute for Transportation Research and Education, 2016

Aerospace Manufacturing Industries in NC

- NC aerospace manufacturing industries provide more than **\$10.5 billion** in economic impact each year.
- NC aerospace manufacturing industries support over 42,600 jobs throughout North Carolina.
- NC aerospace manufacturing industries support more than **\$3 billion** in personal income for aviation-related jobs.





Where ingenuity takes off









Source: NC State University, Institute for Transportation Research and Education, 2016

Division of Aviation Core Functions

Provide:

- Aviation Safety and Education Programs
- State and Federal Airport Grant Programs
- Air transportation, operations, and support for state agencies
- Management of the state's Unmanned Aircraft System Program





Organization Chart

1 - Contract Prog Mgr

UAS Program Director of Aviation

- 23 Full-time Employees
 - 4 Contractors
 - 2 Temp Employees

1 - Admin

Administration & Finance

- I Business Officer
- 2 Temp Admin

Aviation Development

- 1 Manager
- 1 Senior Proj Mgr
- 5 Proj Mgrs
- 1 Contract Engr
- 1 Contract Insptr

Aviation Programming

- 1 Manager
- 1 Project Engr
- 1 Grants Admin
- 1 Accountant

Flight Operations

- 1 Manager
- 1 Scheduler
- 4 Pilots
- 1 Contract Pilot
- 2 Mechanics
- 1 Safety Specialist



FY 2016 State Funding

Total SFY2016 Aviation Budget \$38,260,952

Specified Projects

\$3,500,000 for Airport Improvement at Cape Fear Regional Jetport

\$2,000,000 toward a new Air Traffic Control Tower at Albert J Ellis Airport

Specified Programs

\$2,500,000 in support of the NC Unmanned Aerial Systems (UAS) Program



Source: 2016 State Budget

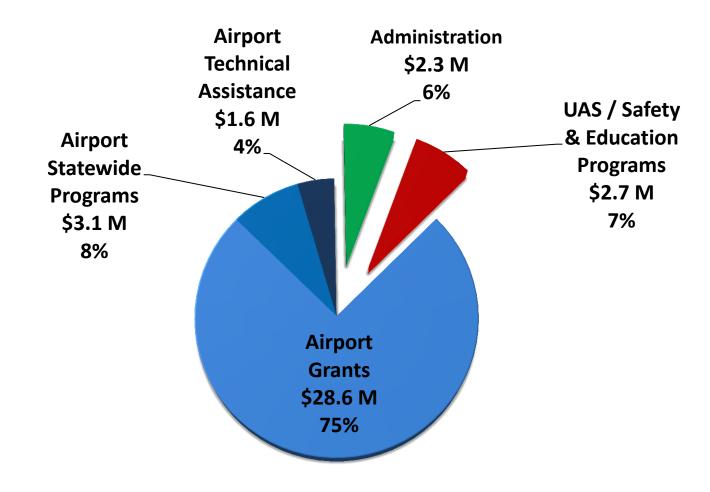
Aviation SFY 2016 Fund Allocation

Airport Grants	\$28.6 M
Commercial Service and General Aviation Airport Grants	
Airport Statewide Programs	\$3.1 M
Safety Preservation & Maintenance, Automated Weather Observation Stations, Wildlife Hazard Management, Safety Inspections	
Airport Technical Assistance	\$1.6 M
Project Managers (salary, benefits, travel) and Professional Services Contracts	
UAS / Safety & Education Programs	\$2.7 M
Unmanned Aircraft System, Aviation (Pilot Proficiency, Aircraft Mechanics, and Youth Events & Camps)	
Administration	\$2.3 M
Staff, Facilities, and Flight Department	
Total	\$38.3 M



Source: NCDOT - Division of Aviation

Aviation SFY 2016 Fund Allocation





Source: NCDOT – Division of Aviation

Aviation Safety & Education

- Conducts pilot and aircraft mechanic safety seminars
- Promotes aviation education and career opportunities
- K-12, college, and specialty programs











NCDOT Flight Operations Aircraft Fleet



2007 King Air 200 9 Passengers



1998 S-76 Helicopter
7 Passengers
For Sale



2007 King Air C90 Photogrammetry or 6 Passengers



1998 Citation Bravo 8 Passengers For Sale



Types of Flight Missions

Mission Specific:

- Photogrammetry Operations
- Emergency and Safety Operations
- Maintenance and Training Operations

Passenger:

- State Officials Support
- Commerce Support
- Governor's Office
- State Universities





2015 Flight Operations Accomplishments

- Improved cost recovery by implementing higher aircraft rates and lower fuel and insurance cost
- Overall flight utilization was up 21% from previous year
- Established MOA with UNC Medical Air Operations improving flight efficiencies and aircraft utilization
- 100% passenger satisfaction
- Provided over 30 scheduled aviation safety briefings across the state







NC UAS Program Office

Provide safety, guidance, and educational materials and resources

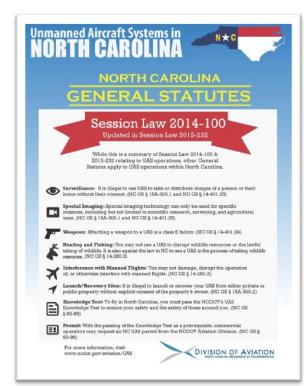
Manage the UAS Working Group Support private sector growth by working with the Commerce Partnership

Implement operator testing and permitting as required by the General Statutes

Maintain the state's long-term Strategic Plan to support UAS activities



NC UAS Program Office





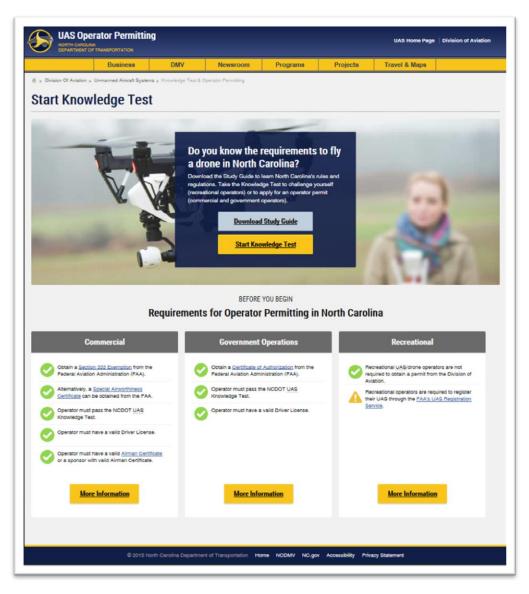


ncdot.gov/aviation/uas/

New NC UAS Website

- Includes a NC UAS Knowledge Test
- Commercial and Government UAS Operator's Permits can be acquired online
- UAS Safety Guide and NC Statutes
- Helpful Links

ncdot.gov/aviation/uas/



Airport Grants











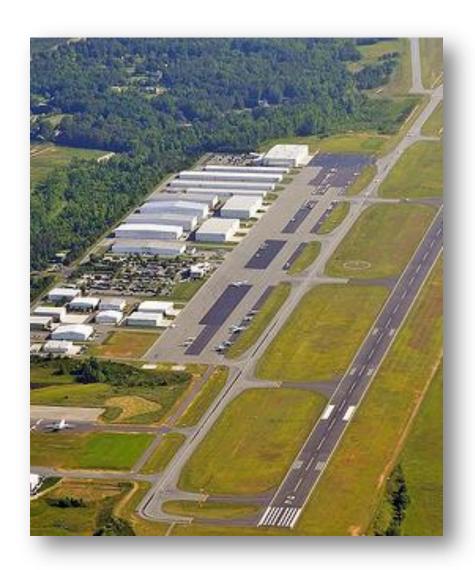








Airport Statewide Programs





Airport Safety Preservation (Maintenance Program)



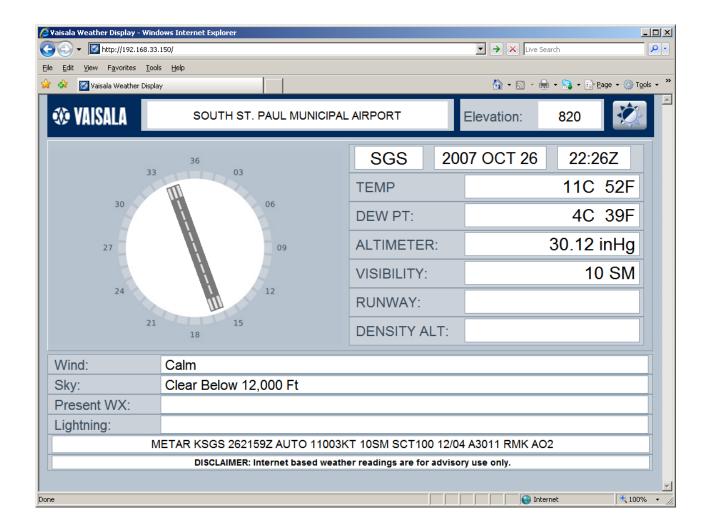




Automated Weather Observation Station (AWOS) Program

47 systems across the state

Provides real time weather observations via VHF and phone connections to pilots and the public



Wildlife Hazard Mitigation Program



Work in conjunction with USDA Wildlife Services to address wildlife issues at airports

- Wildlife Hazard Assessments
- Site Visits
- Training Days
- Wildlife Hazard Management Plans



State Funding

FY 2016 Funding

\$38.3M

Operations

\$36.0M

GA Airport Project Grants - \$18.0M CS Airport Project Grants - \$10.6M Statewide Airport Programs - \$3.1M Program Support - \$1.6M UAS / Safety & Ed Programs - \$2.7M

Administration

\$2.3M



State Funding (in millions) SFY 2012-2016



STI Legislation

- All capital expenditures, regardless of mode, will be funded from <u>Highway Trust Fund</u>.
- All modes must compete for the same funds.
- Projects (regardless of mode) will be scored on a 0-100 point scale.
- Local Input will be part of the scoring criteria for all Regional Impact and Division Needs projects.
- Operations and Maintenance expenditures will be funded from the Highway Fund.



Eligibility Definitions – Highways

	Statewide	Regional	Division
Highway	 Interstates and Future Interstates Routes on the NHS as of July 1, 2012 Routes on Department of Defense Strategic Highway Network (STRAHNET) Appalachian Development Highway System Routes Uncompleted Intrastate projects Designated Toll Facilities 	Other US and NC Routes	• All SR Routes



Eligibility Definitions - Non Highways

	Statewide	Regional	Division
Aviation	Large Commercial Service Airports. Funding not to exceed \$500K per airport project per year	Other Commercial Service Airports not in Statewide. Funding not to exceed \$300K per airport project per year	All Airports without Commercial Service. Funding not to exceed \$18.5M for airports within this category
Bicycle- Pedestrian	N/A	N/A	All routes
Public Transportation	N/A	Service spanning two or more counties and serving more than one municipality. Funding amounts not to exceed 10% of regional allocation.	Service not included on Regional. Multimodal terminals and stations serving passenger transit systems
Ferry	N/A	State maintained routes, excluding replacement vessels	Replacement of vessels
Rail	Freight Capacity Service on Class I Railroad Corridors	Rail service spanning two or more counties not included on Statewide	Rail service not included on Statewide or Regional



STI – Classification of Airports

Statewide Mobility- Commercial Service Airports

- International Service or 375,000 enplanements
- Federal Aviation Administration's National Plan of Integrated Airport Systems (NPIAS)
- \$500,000 per airport per project per year
- Charlotte Douglas International Airport, Raleigh Durham International Airport, Piedmont Triad International Airport, Wilmington International Airport

Regional Impacts – Commercial Service Airports

- NPIAS airports that are <u>not included in subdivision (1)</u> of this section
- \$300,000 per airport per project per year
- Asheville Regional Airport, Albert J. Ellis Airport, Coastal Carolina Airport, Concord Regional Airport, Pitt-Greenville Airport, Fayetteville Regional Airport

Division Needs – General Aviation Airports

- NPIAS airports that are <u>not included in subdivision (1) or (2)</u>
- General Aviation airports
- Statewide total funding not to exceed \$18,500,000



FY 2016-20 Aviation STI Projects

Tier	Quantity	Cost
Statewide Mobility	9	\$4.5 M
Regional Impact	5	\$1.5 M
Division Needs	15	\$22.2 M
Total	29	\$28.2 M

Note: STI funds Capital Projects only



FY 2016 Aviation STI Projects

Tier	Quantity	Cost
Statewide Mobility	2	\$1.0 M
Regional Impact	-	-
Division Needs	5	\$5.4 M
Total	9	\$6.4 M

Note: STI funds Capital Projects only



Federal Funding

FFY 2015 Funding

NC Block Grant Program administered by the Division of Aviation to 62 GA Airports:

\$18.3M

- Apportionment **\$5.7M**
- Discretionary \$3.4M
- Non-Primary Entitlement \$9.2M

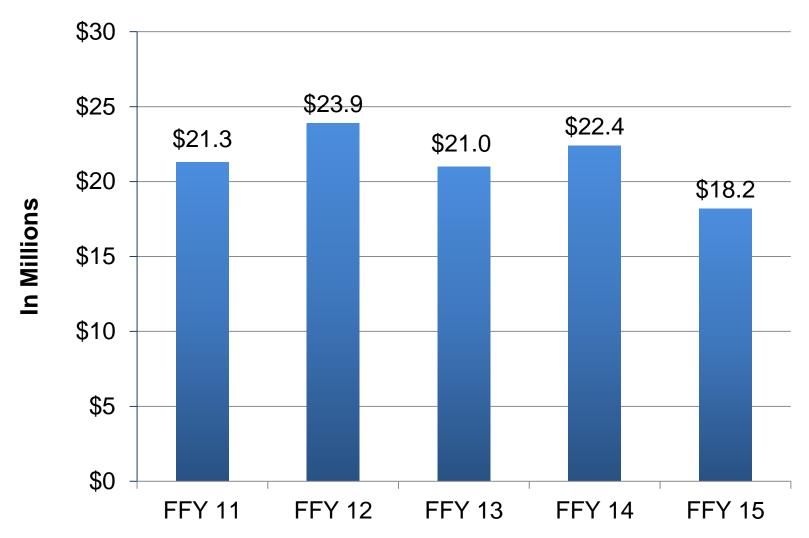
Airport Improvement Program (AIP) administered by FAA to 10 Commercial Service Airports:

\$52.2M





FAA State Block Grants FFY 2010-2015





NC Airports Working Group

- Established to identify opportunities for improvement of existing programs and services
- Creating and implementing tools to better serve state, regional, and local needs





Current Airport Project Requests

- Current Project Requests directly from the airports
 890+ projects totaling over \$1.6 billion
- Project Requests submitted for consideration in STI
 175 projects totaling over \$611 million
- Project Requests submitted for Operations & Maintenance
 300+ projects totaling over \$680 million



2014 NC Airports System Plan Study

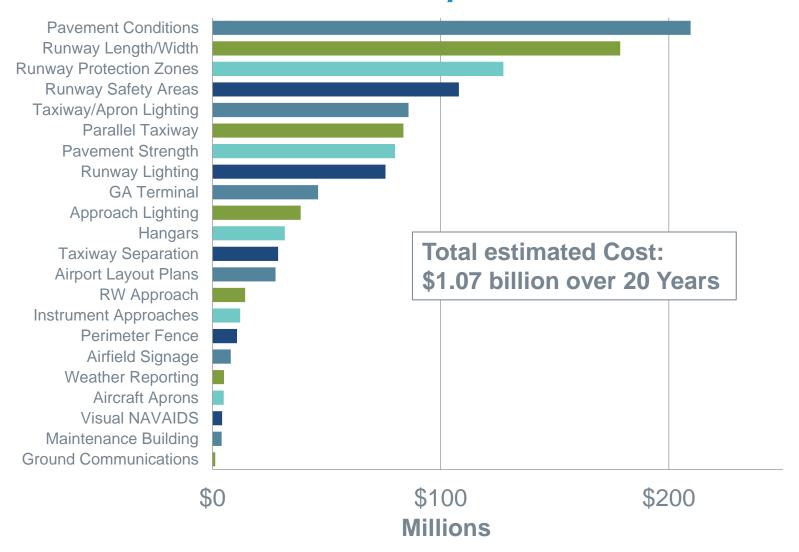
- Top-down analysis of our airport system
- Comprehensive inventory of each airport's assets in our state system



- 20-year forecast applied to all GA and smaller CS airports
- Established Performance Measures and System Objectives for all eligible project categories



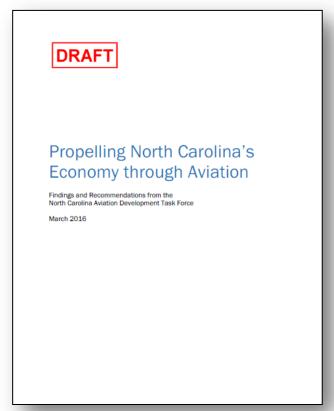
Cost by Airport Development Plan Category for GA Airports



Source: 2014 North Carolina Airports System Plan Update

NC Aviation Development Task Force

The governor directed the Task Force to submit a comprehensive report and recommendations to the secretary of transportation for the enhancement of the state's aviation programs.





Aviation Development Task Force Findings

- Funding Issues: Funding is far less than needs; needs have evolved
- **Economic Impact**: Return on Investment is tremendous need advocacy group
- Military Contribution: NC is doing a good job retaining and recruiting
- **DoA Processes**: Complicated state and federal requirements, inadequate staffing, communication limitations







Task Force Preliminary Recommendations

- Funding Issues: Aviation tax recovery and reinvestment, a sustainable funding stream should be created
- Economic Opportunities: Enhance community college programs, EDPNC involvement, marketing and education
- Military Contribution: Database of retired vets, additional tax exemptions on military income, maximize military use of existing airports
- Agency Processes: Creation of Aviation Commission, training for airports statewide, continuation of Working Group efforts







Current O&M Projects

Source of Data	General Aviation Airports	Commercial Service Airports
Airport Requests	\$504M / 10 Years or \$50M / 1 Year	\$667M / 5 Years or \$133 / 1 Year
2014 NC Airports System Plan	\$1.07B / 20 Years or \$53M / 1 Year	Not Studied
Totals	\$51M	\$133M



Current Annual Funding

Source of Funds	General Aviation Airports	Commercial Service Airports
State Aid	\$18M	\$11M
FAA	\$18M	\$55M
Totals	\$36M	\$66M

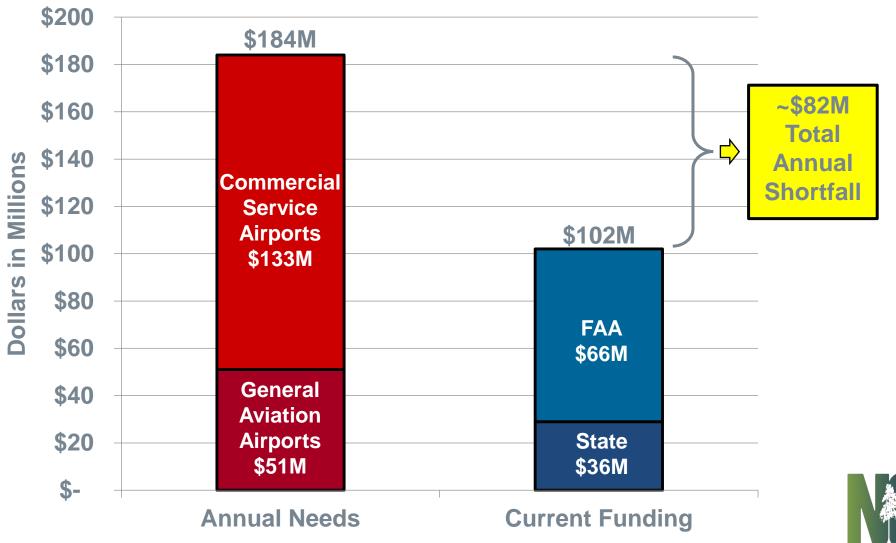


O&M Funding Shortfall

	General Aviation Airports	Commercial Service Airports
Current O&M Projects	\$51M	\$133M
Current Funding (State & FAA)	\$36M	\$66M
Totals	-\$15M	-\$67M



NC Airports Annual Funding Gaps



Current Funding based on FY 2016 State Funding and FY 2015 FAA Funding

Discussion





